

07-21-04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/783,786
Applicant : Kranz et al.
Filed : February 20, 2004
TC/A.U. : 1645
Examiner : Not assigned
For : HIGH AFFINITY TCR PROTEINS AND METHODS
Docket No. : 89-99A
Customer No.: 23713

Confirmation No. 7830

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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July 20, 2004 Date	<i>Cathy Nelson</i> Cathy Nelson
EV 456657615 US Express Mail Tracking Number	

INFORMATION DISCLOSURE STATEMENT

Sir:

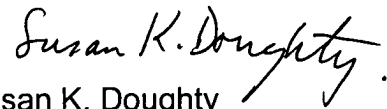
This application is a divisional of U.S. Application Serial No. 09/731,242, filed December 6, 2000. Copies of PTO Forms 1449 submitted in U.S. Application Serial No. 09/731,242 are enclosed. In accordance with 37 C.F.R. 1.98(d), copies of references cited in that application are not submitted, but will be provided upon request. Pursuant to the Waiver published in the Official Gazette on August 5, 2003, because this application was filed after June 30, 2003, copies of cited U. S. patents are not included, but will be provided upon request.

The Examiner is respectfully requested to consider the references, copies enclosed, which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached Patent and Trademark Office form PTO-1449.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

It is believed that this submission does not require the payment of a fee. If this is not correct, please charge any required fee to deposit account no. 07-1969.

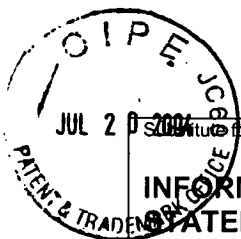
Respectfully submitted,



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Attorney docket No. 89-99A
July 20, 2004



Submit for form 1449/PTO, based on PTO/SB/08A and 08B

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	10/783,786
Filing Date	02/20/2004
First Named Inventor	KRANZ et al.
Art Unit	1645
Examiner Name	Not assigned
Attorney Docket Number	89-99A

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
		6,331,391	12/18/2001	Wittrup et al.	
		6,423,538	07/23/2002	Wittrup et al.	
		6,696,251	02/24/2004	Wittrup et al.	
		6,699,658	03/02/2004	Wittrup et al.	

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Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²
		WO 99/36569	07/22/1999	Wittrup et al.		
		WO 01/48145	07/05/2001	Kranz et al.		
		EP 0673427	09/27/1995	Klis et al.		
		EP 0682710	11/22/1995	Frenken et al.		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		E. T. Boder et al., "Yeast surface display system for antibody engineering," <i>Immunotechnology</i> 2(4):283, 1996	
		J. Foote et al., "Breaking the affinity ceiling for antibodies and T cell receptors," <i>PNAS</i> 97(20):10679-10681, 2000	
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		H. R. Hoogenboom, "Designing and optimizing library selection strategies for generating high-affinity antibodies," <i>Tibtech</i> 15:62-70, 1997	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

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Form PTO 1449		
ATTY DOCKET NO. 89-99A	SERIAL NO. 10/783,786	FILING DATE February 20, 2004
APPLICANT Kranz et al.		GROUP 1645

ORIGINALLY CITED IN 09/731,242

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WO 99/36569	22-07-1999	PCT			

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			Holler, et al., (2002) TCRs with high affinity for foreign pMHC show self-reactivity. <i>Nature Immunology</i> , Published online 9 December 2002; doi:10.1038/ni863
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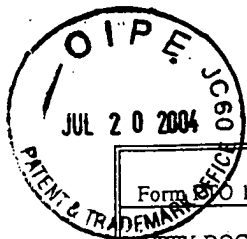
Exmr Initial	Document Number	Date (dd-mm-yy)	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date (dd-mm-yy)	Country	Class	Subclass	Translation Yes/No
	98 39482 A	11-9-98	PCT			
	99 36569 A	22-7-99	PCT			

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

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	1	5,861,156	01/19/1999	George et al.	424	135.1	

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OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

	2		Weidanz, Jon A. et al. (August 1998) "Display of functional $\alpha\beta$ single-chain T-cell receptor molecules on the surface of bacteriophage" <i>Journal of Immunological Methods</i> 221:59-76.
	3		Shusta, E.V. et al. (1999) "Yeast Polypeptide Fusion Surface Display Levels Predict Thermal Stability and Soluble Secretion Efficiency" <i>Academic Press</i> 292:949-956.
	4		Lake, D.F. et al. (January 1999) "Construction and binding analysis of recombinant single-chain TCR derived from tumor-infiltrating lymphocytes and a cytotoxic T lymphocyte clone directed against MAGE-1" <i>International Immunology</i> 11:745-751.
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Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	4,946,778	08/07/90	Ladner et al.	435	69.6	
	5,013,650	05/07/91	Carty	435	69.1	
	5,223,409	06/29/93	Ladner et al.	435	69.7	
	5,225,539	07/06/93	Winter			
	5,258,289	11/02/93	Davis			
	5,258,498	11/02/93	Huston et al.	530	350	
	5,260,203	11/09/93	Ladner et al.	435	172.3	
	5,316,922	05/31/94	Brown			
	5,403,484	04/04/95	Ladner et al.	435	235.1	
	5,411,873	05/02/95	Adams			
	5,427,908	06/27/95	Dower			
	5,482,858	01/09/96	Huston et al.	435	252.33	
	5,510,240	04/23/96	Lam			
	5,571,698	11/05/96	Ladner			
	5,580,717	01/20/95	Dower			
	5,624,817	04/29/97	Miller et al.	435	69.1	
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	5,733,743	03/31/98	Johnson et al.	435	69.1	
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	5,780,225	07/14/98	Wigler et al.	435	6	
	5,814,476	09/29/98	Kauffman et al.	435	69.1	

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		5,824,514	10/20/98	Kauffman et al.	435	91.1	
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		5,858,657	01/12/99	Winter et al.	435	6	
		5,866,344	02/02/99	Georgiou	435	7.21	
		5,871,974	02/16/99	Huse	435	69.7	
		5,900,476	05/04/99	Ruggeri et al.	530	380	
		6,027,910	02/22/00	Klis et al.	435	41	
		6,114,147	09/05/00	Frenken et al.	435	69.7	

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		0 436 597 B1	02.04.97	EP			

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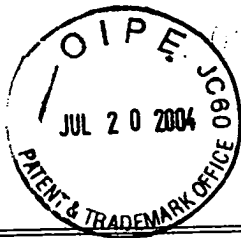
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Form PTO-1449		
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APPLICANT: Kranz et al.		GROUP: 1645

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		<i>van der Vaart (Sept 1965), "Identification and Characterization of Cell Wall Proteins of Saccharomyces cerevisiae," Thesis, ISBN 90-393-1498-5 pp.1-138</i>
		<i>Weber et al., (Apr 1992), "Specific Low-affinity Recognition of Major Histocompatibility Complex Plus Peptide by Soluble T-cell Receptor," Nature 356:793-796</i>
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<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		

12/20/89



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U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	RE 35,500	05/06/97	Rhodes	424	1.49	
	3,817,837	06/18/74	Rubenstein et al.	195	103.5	
	3,850,752	11/26/74	Schuurs et al.	195	103.5	
	3,927,193	12/16/75	Hansen et al.	424	1	
	3,939,350	02/17/76	Kronick et al.	250	365	
	3,996,345	12/07/76	Ullman et al.	424	12	
	4,275,149	06/23/81	Litman et al.	435	7	
	4,277,437	07/07/81	Maggio	422	61	
	4,331,647	05/25/82	Goldenberg	424	1	
	4,348,376	09/07/82	Goldenberg	424	1	
	4,361,544	11/30/82	Goldenberg	424	1	
	4,366,241	12/28/82	Tom et al.	435	7	
	4,444,744	04/24/84	Goldenberg	424	1.1	
	4,468,457	08/28/84	Goldenberg et al.	435	69	
	4,640,561	02/03/87	George	339	17	
	4,713,332	12/15/87	Mak	435	70	
	4,831,122	05/16/89	Buchsbaum et al.	530	389	
	4,873,190	10/10/89	Saito et al.	435	172.3	
	4,874,845	10/17/89	Saito et al.	530	395	
	4,923,799	05/08/90	Mak	435	6	
	4,970,296	11/13/90	Saito et al.	530	323	
	5,024,940	06/18/91	Brenner et al.	435	69.1	
	5,059,413	10/22/91	Reardan et al.	424	4.1	
	5,101,827	04/07/92	Goldenberg	128	653.4	

Form PTO-1449		
ATTY DOCKET NO. 89-99A	SERIAL NO. 10/783,786	FILING DATE February 20, 2004
APPLICANT Kranz et al.		GROUP 1645

ORIGINALLY CITED IN 09/731,242

		5,185,250	02/09/93	Brenner et al.	435	69.3	
		5,299,253	03/29/94	Wessels	378	163	
		5,316,925	05/31/94	Davis et al.	435	91.2	
		5,340,921	08/23/94	Brenner et al.	530	350	
		5,348,867	09/20/94	Georgiou et al.	435	69.7	
		5,498,530	03/12/96	Schatz	435	69.1	
		5,580,961	12/03/96	Saito et al.	530	395	
		5,601,822	02/11/97	Brenner et al.	424	144.1	
		5,614,192	03/25/97	Vandenbark	424	185.1	
		5,635,363	06/03/97	Altman et al.	435	7.24	
		5,723,309	03/03/98	Bonneville	435	69.1	
		5,738,996	04/14/98	Hodges	435	7.1	
		5,763,733	06/09/98	Whitlow et al.	530	387.3	
		5,767,260	06/16/98	Whitlow et al.	536	23.4	
		5,789,208	08/04/98	Sharon	435	91.41	
		5,824,483	10/20/98	Houston, Jr., et al.	435	7.1	
		5,837,477	11/17/98	Germain et al.	435	7.24	
		5,840,304	11/24/98	Davis et al.	424	192.1	
		5,866,363	02/02/99	Pieczenik	435	69.1	
		5,869,620	02/09/99	Whitlow et al.	530	387.3	
		5,871,907	02/16/99	Winter et al.	435	6	
		5,882,945	03/16/99	Saito et al.	436	547	
		5,948,409	09/07/99	Germain et al.	424	193.1	
		5,969,108	10/19/99	McCafferty et al.	530	387.3	
		5,977,321	11/02/99	Saito et al.	530	388.75	
		6,017,732	01/25/00	Jespers, et al.	435	69.6	

Form PTO-1449		
ATTY DOCKET NO. 89-99A	SERIAL NO. 10/783,786	FILING DATE February 20, 2004
APPLICANT Kranz et al.		GROUP 1645

ORIGINALLY CITED IN 09/731,242

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12/20/89